

Light-Weight

Low Cost

High Insulation Values

High Acoustical Values

Load-Bearing

Fire Resistant

Nailable

Plaster and Stucco Base

Easy Workability



Structural Concrete

Precast Structural Slabs

Fireproofing

Precast Roof Slabs

Load-Bearing Building Units

Partition Units

Bridge Decks

Floor-fill

Nailing Concrete

Roof-fill

and wherever else dead load saving is advantageous

Exclusively Produced by

THE POTTSCO CORPORATION

Quality and Economy





Load Bearing

Used in some of the largest and most modern Government Buildings

Low Cost

The Pottsco Corporation

High Insulation Value

High Acoustical Value One North La Salle Street Chicago Light Weight

Fire Resistant

Uniform and Easily Worked

Direct Plaster & Stucco Base

THE BUILDING AND CONSTRUCTION INDUSTRY:

This catalog has been compiled and issued in the hope that the wide variety of data herein contained will serve to acquaint the reader with the salient qualities and advantages of POTTSCO light-weight concrete.

No attempt has been made to provide accurate specifications for specific work. Rather, this catalog serves as a general treatment of the product and its uses. However, this company will, through its general and district offices, provide detailed specifications for any project.

We believe POTTSCO presents a product of QUALITY and ECONOMY to the building and construction industry -- a combination that will be happily received by purchasers and users of light-weight concrete.

An earnest effort will be made by all representatives of this corporation to serve the industry to the best of their ability.

Respectfully,

President

The following offices are established under direct and competent supervision to quote prices, handle orders and generally service the sale and use of POTTSCO.

Write the nearest office.

General Office

Chicago, Illinois - One North LaSalle Street
Telephone - State 1340. President, H. H. Potts.

New York City

1440 Broadway - Telephone - Lackawanna 4-2714.

A. R. McMullin, New York Manager.

Washington, D.C.

510 Metropolitan Bank Building - Telephone - National 9330 L. K. McDorman, District Manager.

Newark, N. J.

60 Park Place - Telephone - Market 2-4917

J. Franklin, District Manager

Plants are located at - Chicago, Illinois - Pittsburgh, Pennsylvania - Bethlehem, Pennsylvania.

Are You Interested in Saving Money on Your Light-weight Concrete

SOME REASONS FOR USING POTTSCO

- 1. It is economical the aggregate is low in cost offering contractor substantial savings.
- 2. Use it for:

Floor-fill
Roof Slabs
Nailing Concrete
Fireproofing
Back-up Tile
Partition Tile

- 3. It places perfectly and rapidly still further reducing cost to contractor for concrete in place.
- 4. POTTSCO floor-fill and similar concrete weighs from 70 to 75 pounds per cubic foot. Wall load-bearing POTTSCO concrete weighs approximately 100 pounds per cubic foot.
- 5. It meets Federal, State and City building codes and requirements.
- 6. POTTSCO aggregate is entirely free from any elements which react unfavorably to steel, iron or metal no possible corrosion.
- 7. POTTSCO concrete is fire-proof.
- 8. POTTSCO concrete has superior insulation and acoustical properties.
- 9. High strength with minimum amount of cement is developed.
- 10. POTTSCO aggregate can be handled equally well through Ready-Mix or Transit-Mix plants.
- 11. Only one grade of aggregate to handle no segregation ready to use as unloaded from car.
- 12. POTTSCO concrete has been used in large government and commercial projects.
- 13. Producing plants, in conjunction with low freight rates, have been established so that POTTSCO may be used on any job in a very wide territorial area with BIG savings.
- 14. Summed up POTTSCO aggregate produces a perfect cellular, porous, light-weight concrete at an attractive cost.

THE POTTSCO CORPORATION
One North LaSalle Street,
Chicago



TREASURY DEPARTMENT

WASHINGTON

OFFICE OF SUPERVISING ARCHITECT

IN REPLYING QUOTE THE ABOVE SUB-JECT, BUILDING, AND THESE LETTERS SA-AE

July 1, 1933.

The Pottsco Corporation, 1 North LaSalle Street, Chicago, Ill.

Gentlemen:

Referring to your letter of June 12th, the specifications in use by this office for light weight concrete fill in connection with the construction of buildings under the supervision of this office have been modified to permit the use of material of the type manufactured by your company.

Respectfully,

Jas. A. Wetmore

Acting Supervising Architect.

THE POTTSCO CORPORATION

Exclusive Producer of "Pottsco" Lightweight Concrete Aggregate
One North LaSalle Street, CHICAGO, ILL.

PLANTS IN CHICAGO AND PITTSBURGH

"POTTSCO"—AN INERT, CELLULAR, POROUS, LIGHTWEIGHT AGGREGATE WEIGHING APPROXIMATELY 48 LBS. PER CUBIC FOOT

Uses

Structural Concrete.
Fireproofing Steel Columns and Beams.
Floor Fill.
Roof and Floor Slabs.

Partition Units.
Nailing Concrete.
Back-up Units — Load
Bearing.
Special Products.



A Good Product That Combines the Most in Quality with the Most in Economy Light Weight.
Economical (first cost and in place).
Low Absorption.
High in Insulation Value.
High in Fire Resistance.
High Acoustical Properties.

Excellent for Nailing.

Good Plaster and Stucco Base. Smooth Finish and Texture. Excellent Bond. Low Capillary Attraction.

Structural Concrete

Where saving in weight is desirable for reinforced structural concrete, Pottsco may be used to decided advantage.

Specifications furnished on request.

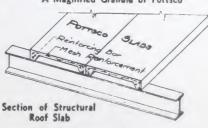
Fireproofing Steel

A saving in weight of from 40 to 60 lbs. per cu ft. can be made with Porrsco as compared with ordinary stone concrete. This feature offers the opportunity to effect great savings in cost of steel.

Specifications furnished on request.



A Magnified Granule of Pottsco



Structural Slabs

Roof and floor slabs made from POTTSCO, possess light weight and structural qualities. Pottsco precast slabs are manufactured and supplied by various reliable concerns. Full information furnished on request.

Building Units

Approximately one hundred reliable concrete products manufacturers supply the trade with quality Portsco building units for load-bearing back-up and partition uses. They adequately meet the specifications of building codes and the American Concrete Institute.





Left:
Section of a
Steel Column
Fireproofed by
Pottsco
Concrete



U. S. Post Office, Chicago, III.
GRAHAM, ANDERSON, PROBST & WHITE, Architects
JOHN GRIFFITHS & SON Co., Builders
Pottsco was used throughout this building as floor fill

Floor Fill

POTTSCO floor fill averages 70 to 75 lbs. per cu. ft. with strength in excess of 500 lbs. per sq. in. This strength can be produced with a mix as lean as 1:9.

POTTSCO Light weight Building BACK-UP UNITS

Combine those rare merits of Economy and Quality

THIS IS THE FIRST OF A SERIES OF FACT STATEMENTS THAT WILL BE PUBLISHED, IN AN EFFORT TO FAMILIARIZE ARCHITECTS, BUILDERS, CONTRACTORS AND OWNERS WITH AN OPPORTUNITY TO IMPROVE THE QUALITY OF CONSTRUCTION AND SIMULTANEOUSLY SAVE MONEY.



POTTSCO Back-up Units are good for the following reasons:

Low Cost Lightweight Low Absorption Low Capillary Attraction

High Insulation
Fire Resistance
Sound-deadening
Nailing, Sawing and Boring

Direct Plaster and Stucco Base Light, Clear Color Smooth Texture and Edges

= Exclusively Manufactured and Sold by=

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HIGH INS

Units, al

All of the following statements are made after extensive research and proof -- Technical reports are on file and will be gladly furnished on request.

LOW COST: By favorable arrangements with the manufacturers of the lightweight aggregate from which POTTSCO Units are made, and through our own economical manufacturing facilities, we are able to supply POTTSCO lightweight Back-up Units at a cost, which will provide very substantial savings in the total cost of construction as compared with other materials or units adapted to similar construction, and in addition give you a product that possesses many other qualities, so essential to good construction. POTTSCO Units are made in many shapes and designs, so that we can meet your every requirement. Let us tell you more about POTTSCO lightweight Units and give you a bid.

Although very light, they are very strong—and get stronger with age. POTTSCO Units are from 35 to 40% lighter in weight than ordinary concrete units. The savings in handling and laying on the job are very substantial—yet they possess a liberal margin of safety in the requirements of the general and local building codes, as to strength and compressive resistance. Although very light, they are very strong—and get stronger with age. POTTSCO Units are for load-bearing walls and make ideal partition walls as well.

OW ABSORPTION: The absorption of POTTSCO

Units is much lower than exists in competitive products. It is so low that in some cases these units have been approved by State Industrial Building Commissions for outside walls. We recommend them, however, primarily for back-up work.

OW CAPILLARY ATTRACTION: Capillary attraction (the action which takes place when the molecules of a liquid are attracted by a solid, causing the fluid to rise above its level about the sides of a containing vessel), although the absorption as above stated is low, occurs only in slight form. This creates a condition that is highly advantageous from the standpoint of elimination of moisture and dampness and improved insulation.

IGH INSULATION: The extremely light, porous character of the structure of POTTSCO Units, although sufficiently dense for low absorption and capillary attraction, gives

a unit of especially high insulation qualities. These units are almost perfectly immune from the conductivity of heat and cold. The structure is such that under normal conditions the transmission of heat and cold is negligible. Obviously, in buildings where insulation must be provided for, POTTSCO Units are especially adaptable, and their consideration well deserved.

FIRE RESISTANCE: The ingredient aggregate, from which POTTSCO Units are made, has initially been fused at high temperature, so that the fire resistance of POTTSCO Units is especially high. POTTSCO Units have withstood successfully every fire test to which they have been submitted. Of all their qualities, none are superior to their fire resistance.

SOUND-DEADENING: The same qualities that provide for resistance of heat and cold operate to produce a unit that is effectively sound-proof—another worthy quality for Back-up Units.

NAILING, SAWING AND BORING: These qualities, where they are required, are extremely conducive to economy in construction and are generally recognized as such. Ready proof of the superior qualities of POTTSCO Units is always available.



POTTSCO Back-up Units used in Permanesque Homes, Pasadena Boulevard, Milwaukee, Wis. Furnished by The Economy Concrete Products Co. Wauwatosa, Wis.

POTTSCO Units are easily nailed and the nails HOLD—a real advantage.

plaster or stucco materials and accelerates the labor of application. The bonding or biting POTTSCO units, and the plaster or stucco materials and accelerates the labor of application. The bonding or biting POTTSCO surface insures permanency. There can be no chemical reaction between the base, POTTSCO Units, and the plaster or stucco. Furring and lathing may be altogether avoided and that expense saved, if desired. Decorative, colored wall finishes may be applied with remarkable results direct to POTTSCO walls.

LIGHT, CLEAR COLOR: The general white or gray color of POTTSCO Units offers a pleasing wall, and can be left uncovered with an effect that is artistic.

SMOOTH TEXTURE AND EDGES: The perfectness of shape, edges, and surface contributes to even joints and ease of handling and laying. Masons like to handle and lay POTTSCO Units. There is no patching of joints and corners. The entire wall surface is true.

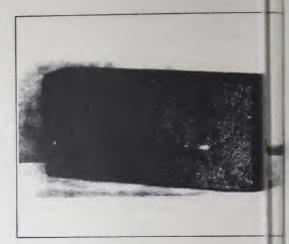
WE HAVE secured the exclusive manufacturing rights on POTTSCO Units in this territory.

WE ARE prepared to furnish lightweight Back-up Units of almost any size, of the highest quality, at prices that will save you a great deal in your construction.

WE ASK for the opportunity to talk with you and show you conclusively the advantages, the economy, and the high qualities of POTTSCO UNITS.



Kalamazoo, Michigan — De Haan Apartments Another POTTSCO Back-up Job



A Specimen POTTSCO Tile 4" x 8" x 16 A good Back-up Tile and Partition Uni

POTTSCO UNITS Should Be Used For

Apartments

Armories, Auditoriums, Rinks, Stadiur

Banks

Office Buildings

Public Buildings and Institutions

Schools

Churches

Clubs and Lodge Buildings

Garages

Hotels and Restaurants

Hospitals

Warehouses

Commercial and Industrial Buildings

Residences

Stores and Markets

Theatres

And wherever else there a need for a SUPERIO BACK-UP UNIT

Want To Save Money?

Well—Here Is One Way To Do It—



POTTSCO cuts your cost for all light-weight concrete construction

because of



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A Magnified Granule of POTTSCO

LOW COST per cubic yard

LOW COST of handling

LOW COST of mixing

LOW COST of placing

LOWEST finished cost--HIGHEST finished quality

This circular is being mailed to outstanding contractors to inform them of the paramount features of POTTSCO — the one light-weight aggregate that will enable them to cut costs

Other contractors are realizing this saving — — so can you.

the pidding you are particularly be particularly by the particular page.

POTTSCO Light-Weight Concrete Age Concrete

has been used successfully for the past five years in all types of building construction » » »



NEW U. S. POST OFFICE

Canal, Van Buren and Harrison Streets

CHICAGO

Largest Post Office Building in the World

Graham, Anderson, Probst & White Architects

John Griffith & Son Company Builders

And

THE NEW CHICAGO POST OFFICE used POTTSCO for all light-weight floor-fill concrete and it gave a first-class job.

POTTSCO is Economical:

Only one grade of aggregate to handle - - use it just as it is unloaded from cars - -

POTTSCO Makes Good Concrete:

Hard - - cellular - - porous - - light - weight (75 pounds per cubic foot up)

POTTSCO Cuts Labor Costs:

Perfect workability - - perfect bonding - - no harshness in placing

POTTSCO is Approved By:

U. S. Government, City and State Building Codes

« « «THE POTTSCO CORPORATIONENOR

Combines These GOOD QUALITIES

Economy Light weight Superior Insulation High compressive strength Fire-resistant Chemically inert (no corrosion) Places and handles cheaply and well Absorbs sound Excellent bond

THE NEW U. S. POST OFFICE AT CINCINNATI, OHIO, was completed with POTTSCO as floor-fill throughout

Consolidated Engineering Co., Builders J. E. Smith Co., Concrete Contractor

And here is what the contractor says about the job --

> J. E. SMITH COMPANY BUILDERS
> 1206 SREEMAN AVENUE
> CINCINNATI
> TELEPHONE WEST 061)

> > June 1,

Dear Mr. lotte:

JES:PG

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When we formally closed the contract with you for furnishing "botteco" for the New Clanimanti jost Office, you stated that in allowing 1800 lbs of interes to the dubic yard, that this 1800 lbs. would yield from ten to fifteen percent more than an actual coulc yard of material.

At the time, we were rather skeptical of your state-ment, and since we have completed our job, using approximately 2200 yds. of your material, we find that the yield is actually 15% pressure.

We had a little difficulty at the start by using too much water and suggest that you caution your future purchasers of jottsco to on careful about this water content. We like your material very well, handles very micely and we have floors that have pursed a very right Government inspection.

dward South



Ask Us for Test Data on POTTSCO Proving These Points

Insulation Value

Compressive Strength From 400 lbs. to 2000 lbs. Per Square Inch (depending on the mix)

Acoustical Value ... 45.7 Units Avge. Reduction

Light Weight ... From 75 lbs. Per Cubic Foot Up

NORTH LA SALLE STREET, CHICAGO » » »



A GOOD PRODUCT - - AN ECONOMICAL PRODUCT FOR MAJOR CONCRETE CONSTRUCTION

POTTSCO, a standard, recognized and approved product, is sold exclusively by THE POTTSCO CORPORATION which makes a genuine effort to give genuine service » » »

POTTSCO'S BIG ADVANTAGES TO YOU:

Makes A Better Job— Assures A Winning Bid— And Saves You Money.

Samples — Technical and Engineering Data — Quotations
Promptly Furnished

Ask us for Delivered Price on any job you have or any job you are bidding on » »

The Pottsco Corporation

One North La Salle Street, Chicago Telephone: State 1340

INSULATION

Tests and use have definitely proved that POTTSCO concrete is the highest in quality from the standpoint of insulation of any structural concrete thus far developed.

POTTSCO, therefore, deserves consideration in any type of building construction where insulation against heat and cold

is needed or important.

G. F. GEBHARDT

MICHANICA LAGINERA CHICAGO

March 28, 1929

H. E. Potts Company 228 North LaSelle Street Chicago, Illinois.

We submit herewith the results of tests which we have duoted to determine the rate of heat flow through your "Pottaco"

Physical Measurements

Length, inches Beight, inches Thioxness, inches
Density; pounds per ou.ft. of volume 65
Hollow Space; percent of total volume 42.2
Density of Aggregate; pounds per ou.ft. 112.

Heat Conductivity Test

In conducting this test we have used the flat plate method which gives the internal conductivity of the material, surface to surface. In the date below we have expressed this conductivity in S.t.u.s per hour per square foot of wall surface per degree Pahr, of temperature difference between the surfaces of the well for the S.

The temperatures on the two sides of the tile were measured with copper - advance thermocouples attached directly to the surface of the tile. You will note that the warm side was meintained at a temperature of 100 depress Zahr, and the cold side at 65 degrees Zahr, This gives a temperature difference earches tile of 55 degrees Zahr, and a mean or base temperature of 72.5 degrees Zahr. The results are as follows:

Temperatures - Deg. Pehr. Heet Conductivity Werm Side Cold Side Difference Meen S.t.m.s per Rour 100 45 58 72.5 0.30

14

Per J. B. Reebler.

C F CEBHARDT MILITARE METALINE CHILL VILLE

December -6, 1929

H. H. Potts Company Builders Building Gnicugo, Illinois.

Gentlemen:

The have your letter of December 13th relative to our report building unit. We note the quotien which you relative to our report materials compared with haydite. In reply we are pleased to mixing the property of the proper

Percent of nollow space, while all the tested contrins approximately 42 May will be have ended use of a solid secret set on the approximately 42 affects on the secret set of a size of a solid secret set of a size of

in the wall.

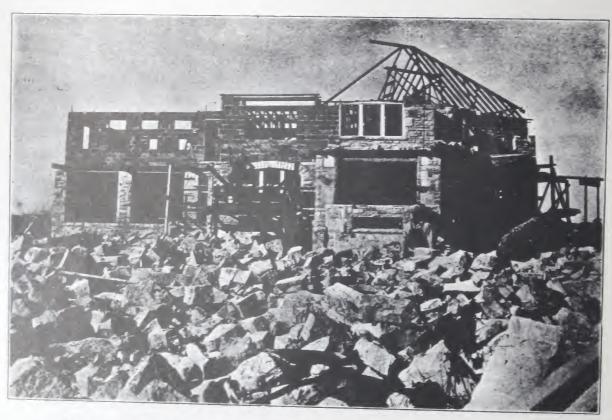
The tost on Mayville, a John of Wilsh you enclosed in your letter, was moved by an accordy firmer yours are and you the first will no
about conducted on this material firmer yours are and you the first will no
about conductivities according from a to no commence in land the Miner
thickness. In small, we have conductivity of w wonders in the Miner
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G. 2. Gabler Peebles

When you POTTSCO You get INSULATION use POTTSCO real INSULATION

This is the second of a series of educational papers on POTTSCO light-weight concrete building back-up units, intended to acquaint Architects, Builders, Contractors and Owners with an all-quality



A representative MILWAUKEE, WISCONSIN, home—a type where quality is demanded. POTTSCO back-up units are used throughout.

The following three pages tell why discriminating Architects and Builders use POTTSCO LIGHT-WEIGHT BACK-UP UNITS

= Exclusively Manufactured and Sold by=

G. F. CEBHARDT

MECHANICAL ENGINEER

SELECTION DESIGNATE ADMINISTRATION OF THE PROPERTY OF THE

March 28th, 1929.

H. H. Patts company 2-8 North LeSalle Struct Chicago, Illinois

Gentlemen

We submit herewith the results of tests which we have conducted to determine the rate of heat flow through your "Pottsco" building tile.

Physical Measurements

Hoat Conductivity Test

in conducting this test we have used the flat plate method which gives the internal conductivity of the material, surface to surface. In the data below we have expressed this conductivity in St.t.u.s pur hour per square foot of wall surface per degree Fahr, of temperature difference between the surfaces of the sail for the 8 inch thickness.

The temperatures on the two sides of the tile were measured with coppur - advance thermocouples attached directly to the surface of the tile. You will not that the carm side was meintained at a temperature of 100 degrees Fahr, and the cold side at 45 degrees Fahr. This gives a temperature difference scross the tile of 55 degrees Fahr, and a mean or base temperature of 72.5 degrees Fahr. The results are as follows:

Tempera	tures - Dog.	Fahr.	Moan	Heat Conductivity
Warm Side	Cold Side	Difference		B.t.u.s. per Hour
100	45	55	72.5	0.30

Testing Engineer J. G. Poobles.

Building Unite

Por J. C. Peebles.

G. F. Gebhardt, Mechanical Engineer, ARMOUR IN-STITUTE OF TECHNOLOGY, submits this report after

regulation insulation test on standard 8 x 8 x 16"

POTTSCO light-weight blocks.

No second

This laboratory, recognized for its extensive and thorough research work in the field of INSULATION, was purposely selected to make these tests on POTTSCO units, because it is to this laboratory chiefly that insulation products are submitted.

The POTTSCO aggregate from which POTTSCO units are made is so high in INSULATION that it can be shipped in coal or gondola cars during the severest part of the winter, wet and full of moisture and only a thin crust around the sides, bottom and top of car will form. THE COLD WILL NOT PENETRATE A CAR LOAD TO EVEN THE POINT OF FREEZING.

0.00

Is it any wonder then that POTTSCO units are high in INSULATION?

COMPARISON OF REAL LOSS THROUGH VALUE OF TARIOUS MATERIALS.

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OBJUST C SCHOOL OF PARES.

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Graphically expressed, the relation of INSULATION efficiency of POTTSCO units as shown by above report to other structural units, based on general published reports, reveals an interesting comparison.

POTTSCO walls are INSULATED walls.



The fine, porous, granular, cellular structure of POTTSCO aggregate when combined with cement, forms a hard mass of sponges, filled with minute air spaces and sealed over with cement, which kills the transmission of heat and cold.

The physical characteristics of this combination of cement and POTTSCO sets up an impervious barrier to the atmospheric elements and accomplishes the ideals of INSULATION.

Light-Til

ING TO

HERE IS JUST A PLAIN, PRACTICAL PROOF

You can lay up a plain wall of POTTSCO units and apply intense heat to one side. Heat it to from 1500 to 2000 degrees F. Bring it to a red hot heat. Keep the heat applied for a long time. (These tests have been run from 4 to 100 hours.) Then place your hand on the epposite side of the wall and keep it there as long as you like. You will feel no more than a little warmth.

With what other structural building unit can this test be made?

If you can have one side of the wall, say 1500 degrees and the opposite side say 150 degrees—a reduction of 1350 degrees in say an 8-inch wall, what chance has the cold at say 20 degrees below zero to penetrate the wall? NO INSULATION MATERIAL IS BETTER THAN ITS ABILITY TO RESIST THE TRANSMISSION OF HEAT AND COLD.

UNDERWOOD HOTEL, WAUWATOSA, WIS.



Another representative job where POTTSCO back-up units were used throughout.

-Architect A. L. Scidenschwartz, Milwankee, Wis.

CONTINUE PETERSTONAL NEW YORK.

Chicago, Illinois August 31, 1928.

H. H. Potts Company, Builders Building, Chicago, Illinois.

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The following if result of hest test, authorized by your letter of August 25th, on two-9x8x16 building blocks, which were delivered to our laboratory by your reparamentative.

The test performed was in the nature of a pro-liminary observation and no obsolute temperature determin-ations were made.

Blocks under test were surrounded to a certain ex-tent by other blocks in order to confine the heat as much as possible and were then subjected to an air blast gas flame for four hours.

The area in immediate contact with the fleme came to a bright cherry red which is generally considered indicative of a temperature of about 1500 degrees Pahreinbit. The other face of the block was then not too hot to be touched by the hand.

While under those conditions the blocks were inluged with cold water. No cracking or spalling off of the blocks was apparent from the heat or from the cooling by water.

Respectfully submitted,

HSB: WB Afforme ROBERT W. HUNT COMPANY.

INSULATION is basic.

--

INSULATION is the primary object of all building.

Housing has never meant more than an idea to separate that which needs protection, from the outside world.

The Esquimo's igloo, the gypsic's tent, the pioneer sod hut of the western plains, and on and up to and inclunding today's ultra-modern, monumental structures, are examples of man's attempt to INSULATE from the climates and elements of the Great Outdoors.

Because structural materials have not provided the full requirements of INSU-LATION, special insulating materials have been developed, and worthy as they are for their purpose, their use constitute an imposing added burden financially in the total cost of construction,

WE ARE MANUFACTURING AND OFFERING POTTSCO LIGHT-WEIGHT BACK-UP UNITS FOR ALL TYPES OF CONSTRUCTION IN THIS TERRITORY, BECAUSE WE CAN GIVE YOU STRUCTURAL WALLS AND AT THE SAME TIME INSULATION AT ONE COST.

Some other advantages of POTTSCO back-up units

Light-weight and easy to lay.

Extremely sound-proof.

Direct nailing or boring.

Plaster or stucco direct. Certain characteristics make these units especially an ideal plaster and stucco base.

Fire-proof.

Structural strength (Get stronger with age).

No contraction or expansion.

Very low absorbtion.



"A Picture of a Story"

Use POTTSCO units for

HERDI +

Abartments.

Armories, Auditoriums, Rinks, Stadiums, Banks

Office Buildings.

Public Buildings and Institutions.

Schools.

Churches.

Clubs and Lodge Buildings.

Garages

Hotels and Restaurants.

Hospitals.

Warehouses.

Commercial and Industrial Buildings.

Residences.

Stores and Markets.

Theatres.

AND WHEREVER ELSE THERE IS NEED FOR A SUPERIOR BACK-UP UNIT.

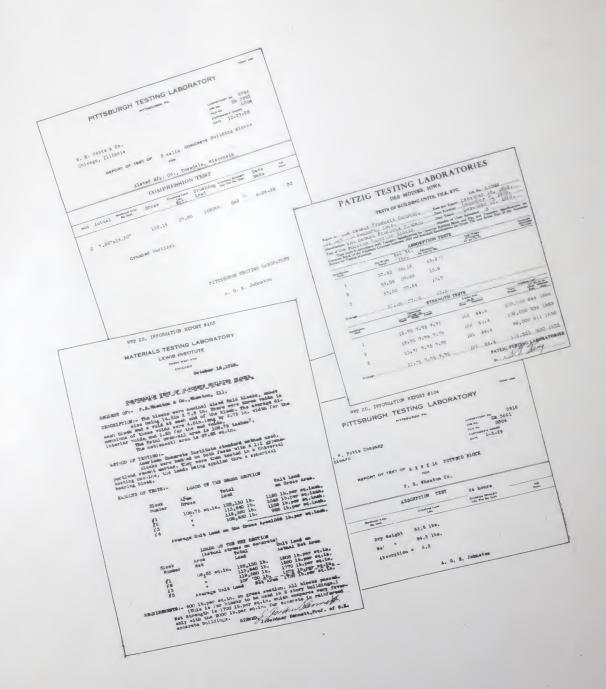
WE ARE THE SOLE MANUFACTURERS OF POTTSCO BACK-UP UNITS IN THIS TERRITORY AND ARE ATTEMPT-ING TO RENDER A REAL SERVICE BY PROVIDING A SUPERIOR QUALITY PRODUCT AT COSTS WHICH MATERIALLY LESSEN THE TOTAL COST OF CONSTRUCTION. POTTSCO UNITS ARE MADE IN NINE STATES.

A TELEPHONE CALL, A CARD, A LETTER, will bring a representative to see you at your convenience, who will give you all the information you wish. We extend a cordial invitation to visit our plant and office and discuss this remarkable product and its uses.

COMPRESSIVE AND ABSORPTION TESTS

The following reproductions of tests are representative of the many that have been made, which establish conclusively that POTTSCO meets all the standard building code requirements as to strength and absorption.

Copies of additional reports will be furnished on request.



PITTSBURGH TESTING LABORATORY

PITTSBURGH, PA.

H. H. Potts Co. Chicago, Illinois

LABORATORY NO 5797
308 NO. Ch 3661
FILE NO 0304
CUSTOMER'S ORGER
BATE 10-27-28

REPORT OF TEST OF 3 CONCRETE Building Blocks

Armbuster, Aurora, Illinois

COMPRESSION T	EST
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			CON	II MESSION -				
Mark	Actual	Sactional Area	Weight	Crushing Lord Line.	Crashing Strength Lim For Hq. Insh	Date Made	Adr Days	
			-					
1 1	5.50x7.75	120.14"	35.50	84000	700	9-15-28	42	

Crushed Vertical

PITTSBURGH TESTING LABORATORY

A. G. E. Johnston

HHP CO. INFORMATION REPORT #110

COPY

PITTSBURGH TESTING LABORATORY Pittsburgh, Pa.

Chicago Office Roport

Zion Institution & Industries, Zion, Illinois.

REPORT OF TEST OF 16x8x8" POTTSCO Blocks.

COMPRESSION TEST THREE CELLS - Crushod Vertical.

Mark	Sq. inches Sectional Area	Crushing Lond Pounds	Crushing St.	rongth	Actual	Ago
2 3	122,66** 122,06** 122,06**	130,000 146,000 176,000	1,065 1,196 1,442	15	.7x7.75° .7x7.75° .7x7.75°	30 30 30
1	DRY (m)	Woight Sa (b)	turated	Absorpt:	lon por c	ont
2 3	29.00 lbs. 29.00 lbs. 28.75 lbs.	35,50	lbs. lbs. lbs.	19.8 po 22.4 po 20.1 po	Cont	

Blocks for this test were selected from yord by Mr. Welter Nimblick, Building Commissioner, Waukegan, Illinois.

(Official copy of this report is on file in office of H. H. Potts Company, Builders Building, Chicago, Illinois.)

INDUSTRIAL COMMISSION

OF WISCONSIN

STATE CAPITOL ANNEX

August 20, 1929

Alsted Mfg. Company, Truesdell, Wisconsin

Gentlemen:

We have a test report on test of your 8 x 8 x 16 inch three cell granulated slag concrete block made on September 26th, 1928 and on which the compression test was made on November 1st, 1928.

The blocks were tested on the 8 x 16 inch face with cells vertical. The blocks were marked AMCO stencilled on each block.

According to the results of the test your blocks satisfactorily passed the test required by the building code and are, therefore, acceptable for use in load-bearing and outside walls in public buildings and places of employment in the state of Wisconsin.

Yours very truly,

INDUSTRIAL COMMISSION

Eiv.Callen E. W. Callen Building Inspector.

WHY CO. INFORMATION REPORT \$105

PITTSBURGH TESTING LABORATORY

INSPECTING ENGINEERS AND CHEMISTS

Lab. # 5742

PITTEBURGH, PA. CHICAGO OFFICE

ROOMS IIII-IIIS ENGINEERING BUILDING

ROOM WEST MACKER DRIVE

N. M. NOLMER MAKERS

TOLUMBER MAKERS Ch 3661

September 29,1928

H.s. Potts Company Chicag, Illinois

15.00" x 8.00" x 8.00" slocks

Made by Festner Forest, Park, Illinois

	MAGO DI		CRUSHED HORI	ZONTAL.	ß
Maria de la companya del la companya de la companya	DIMENSIONS INCHES	GROSS AND	CRUSHING LOAD LES. 110,000	CRUSHING STRENGTH LE PER SQ. IN. GROSS ARI 873 714	R
# 2	15.75x8.00	126.00	90,000		

PIT SHURGE TESTING LABOUATORY

5 copies:

HAP CO. IMPORMATION REPORT \$101 PITTSBURGH TESTING LABORATORY PITTBEURGH, PA.

H. H. Potts Company Chicago.

FILE No. 0304 CUSTOMETE ORDER 1-19-29

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labored by Br. She of T, 131 El co. oured the se

REPORT OF TEST OF 16 x 8 x 8 CONCRETE BLOCKS Comercte Specialty FOR

H. H. Potta Co.

		3	Cells CO.	MPRESSION TES			
-			ACTUAL SIZE	Countries Lond	Crus	shed Verti	oal
	2	4	14	Line.	Graphing Stronger Lin Por Sq. Look	GROSS	Apr
	2		15.75 x 8.00	153000 158500	1214	126.00	
				136300	1258	126.00	

A. G. E. Johnston

Information Report No. 106

COPY

The University of Discousin Dellage of Engineering - Department of Dechasics Laboratory for Testing Meterials

Parall of tests on Blocks,
Indo for Alsted off. Company
Lampins subjected by Lampfacturer
Empring or feeling bone
Supring or feeling bone
Supring or Supris ACC stamilled on each block
White ACC stamilled on each block
Additional Information Made Rept. 26, 1929, POTSCO 1:6 Mix. Mixed 2 minutes
dry: 2 stautes vet. Universal stripper exchine.

Maria de bar	81 so	Gross	Total Load	Load per square lach, gross area
17	7.9915.7"	124,00*	90,880	790
2	7.9x18.7*	114.00	104 280	840
3	7.9119.7"	134,00"	1 980	970

Lacron.

Noct No. 1 - 14.0 per cent \$1000 No. 2 . 18.0 per cent. Hoca So: 3 - 14.2 ter cent.

Not weight about 110 lie per cuits foot. Absorption limit about 15%

THE DAININGS OF STREETS (Signed) Paul 7 Herton Dr.

iditorial signed copy of tide report to so file in office of E. M. Pette Company, Builders Building, Chicago, Hildney,

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oursell,				

The University of Wisconein College of Engineering Department of Mechanics Laboratory for Teeting Materials

April 6, 1929.

Results of Preezing and Thawing Tests on Pottsco Concrete Building Blocks, made for the Economy Concrete Products Co., Wauwatosa, Wicconcin.

The prupose of these tests was to determine the effect of repeated freezing and thawing on the strength and absorption of Concrete Building Blocks made with Potteco aggregate and Portland essent, and also to note the loss in weight and the spalling or other surface deterioration due to the freezing and thawing.

Twenty blocks, all 6x6x16-in., S cell, were received at the laboratory on January 10, 1929, all of the blocks having been smaled by Mr. G. W. Porter, for the Wicconsin Concrets Freducts Association. The card seconspanying the blocks states that they were made on December 7, 1928; aggregate. Pottsoo, all through 1/2-in. ecreen; 1:9 mix; facel 21 cm. ft. batch mixer; S minutes dry, 3 minutes wet; Anchor stripper; cured 18 hours in steams. All blocks were stemcilled on the end with the manufacturer's mark, an E in a hexagon.

Fifteen of the blocks were used in these tests, five of them being subjected to 100 reversals of freezing and thawing and then tested for etrength, absorption and lose in weight, five of them being tested at the beginning of the run for etrength and absorption in the regular manner, and the other five being held in the laboratory until the freezing and thawing run was completed, when they also were tested for strength and absorption in the regular manner. The expectation was that this would give an indication of the normal increase in strength of the blocke under ordinary conditions during the time required to complete the freezing and thawing on the five blocks being tested in that was

The blocks for each test were picked at random as follows. The twenty blocks were arranged in order of seal numbers and beginning at the lowest number the first, fifth, ninth, thirteenth and seventeenth were selected for freszing and thawing and numbered 1 to 5, inclusive. Every fourth block beginning with the second was selected for testing at the beginning of the freezing run, these blocks being numbered 6 to 10, inclusive. Every fourth block beginning with the third was selected for testing at the and of the freezing run, these blocks being numbered 11 to 15, inclusive.

The attached regular printed report blanks, cheete 1, 2 and 3, give the results of the regular strength, voide and absorption teste on the three sate of blocks, the absorption data given thereon for blocks 1 to 5 being for the blocks before the freezing test was started. Absorption on these blocks after the freezing test was started also determined and is given later on in this part of the report.

Of the attached

Sheet 1 gives report on blocks tested before freezing began.

Sheet 1 gives report on blocks tested before freezing and end.

" after " anded.

" 3 " " " subjected to freezing and thawing.

The University of Wisconsin

The University of Wisconsin

The University of Wisconsin

The University of Wisconsin

In the Standard weathering test

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construction.

Economy Conc. Prod. Co., Freezing Test,

1501

12.

Actual freezing was begun on January 17, 1929 and was completed on March 26, 1929. When possible the freezing was accomplished by placing the blocks outside the laboratory, but when the outside temperature was not sufficiently low the blocks were frozen in the laboratory freezer. 100 complete reversals of freezing and thawing were made, the thawing being accomplished by placing the frozen blocks in water and leaving them in this water until thoroughly thawed out. The blocks were esturated with water before being frozen for the first time, being in water for 72 hours, and were always thereafter placed in the freezing atmosphere immediately upon being removed from the water in which they had been thawed. The water in which the blocks were thawed out was heated somewhat by running live steam into it, so as to accelerate the thawing, but no attempt was made to raise this water very much above the regular laboratory temperature of about 7009.

In order to determine whether the blocks were completely frozen or thawed as the case might be a dummy specimem of the case might be a dummy specimem of the case material was used, in which a hole had been drilled to a point in the middle of the thickess web, half way from the top to the bottom of the block. This hole was partly filled with refrigerator machine oil having a low freezing point and a thermometer of the immersion type placed therein, the opening to the hole being tightly corked.

Readings were taken of temperatures as ollows, the average of the 100 readings being given in each case:

Temp.	of	freeger		beginning	of	freezing,	≜ ∀.	140	F
**	200			end	74			13	
66	19	dummy	99	100	R	pt .		17	
m	100	water	100	beginning	96	thawing,		76	
79	100		W	en d				94	
- 10	-	Accomm	- 10		99			63	

Towards the middle of the freezing run block 2 begun to spall on the bottom face, as made, and this spalling progressed until nearly all of this face had erumbled away to a depth of about one inch, after eight this spalling practically ceased, there being very little deterioration during the last fifteen or twenty reversals. This block had a double erose (#) seratohed on one end and the manufacturer states that this was one of a lot of rejected blocks which had been included in this lot of blocks by mistake. In addition to the bad spalling of the bottom of this block there was considerable surface deterioration on the sides and ends to a maximum depth of about 1/4-ins, the total area so affected being about 100 square inches on the sides and ends. In order to make a strength test of this block it was necessary to build up the damaged face with a 1:1 Lummits mortar, and it will be noted that this block was the only one tested which was below the 700 pounds per equare inch required by the Code, either before or after freezing, and also that it was the only block having a material loss in weight after freezing test.

Of the other four blocks that were subjected to the freezing test, there was some surface deterioration to a depth of only about 1/16-in. or less, and this did not show up at all until about 90 reversals had been made. The area affected was approximately 25 to 30 equare inches for block 3, 50 equare inches for block 1, and 75 equare inches for block 4 and 5, most of it being on the ends or the sides near the ends.

Economy Conc. Prod. Co., Freezing Test.

#3.

The data for absorption and loss in weight of blocks 1 to 5 after freezing is as follows:

Block	Weights a: Dry lb.	fter freezing Wet 1b.	% Absorption		n dry weigh freezing
1 2	33.7	39.9 36.1	18.4	0.6	1.0
3 4	34.1 32.6 33.8	40.1 39.2 40.0	17.6 20.3 18.3	0.6	0.3 1.8 0.9

It will be noted from the strength tests that the strength of the five blocks 11 to 15 which were stored in the laboratory and tested at end of the freezing period was less than the strength of the blocks 6 to 10 which were tested at the strength of the blocks 6 to 10 which were tested at the science of the freezing period. While blocks cured in steam gain before any strength only very elightly with age there should be now suchine and in the same manner. An examination were tested as the samine and in the same manner. An examination of the strength of the various blocks indicates that the strength or arise with the dry weight which shows the value of good tamping and may account for the strength difference mentioned. Blocks 1 to 5 which went through the freezing test had an average strength of 1064 pounds per equare inch and an average strength of 34.0 pounds, defective block 2 being omitted in each case; blocks 6 to 10 which were tested at the beginning of the freezing run had an average strength of 973 pounds per equare inch and an average dry weight of 34.9 pounds; blocks 1 to 15 which were tested at the tested at the each of the freezing run had an average strength of 973 pounds per equare inch and an average dry weight of 34.9 pounds; blocks 1 to 15 which were tested at the end of the freezing run had an average strength of 973 pounds per equare inch and an average dry weight of 34.0 pounds. (Comparisons should be on the basis of dry weight as the weights given under part B of the reports were not all gotten at the same time.) Certainly in the case of blocks 1, 3, 4 and 5 there is no indication that the repeated freezing and thawing had any bad effect on the strength.

Detailed data of the dates and hours of each revereal, with the individual temperatures, etc., together with a sketch of each block showing the extent of any surface deteriors lion, are on file in this office.

Paul T. Morton, Jr., Aset. Prof. of Mechanice, 624 Engineering Building.

			F WISCONSE		
	COLLEGE OF ENG	INERRING - DE	PARTMENT OF MI	BCHANICS 3	heet 1.
Results of Tests on Potts	seo Conc. Bu	ilding Block	ng Materials E0 = Sine and Type	8x8x16-in.	, 3 cell.
Made for BOOMONY C	norste Prod	nots Co.		Water to B	A
Samples selected by Go	Dente Co	**************************************	Addres	Fiscon at	
Scoring or tacing NOD! Brands or Marks E. LB.		and 17ad on	and.		
Brands or Marks S., 349. Additional information 300.	AR KAMEDAL. A.	P 1000 - F	marata Pot	teco: all t	hrowth
1/2-in. seresn; 3 minutes wet; A	1:9 mix; Ide	al 21 ou.ft er; cured 1	hours in	iteam.	e ary,
These five block tested at time f	picked at resting test	was begun	lot sent fo	or freezing	tests, and
	(10)	COMPRESSION	TEST DATA		
Londed on . Rxl6-im-	faces, sell	s yertical.		Bedded in .EQE	F110.00.
Mark or Number	6	7	8		10
Seal Number WCPA	1256	1262	1266	1270	1274 36 7
Walght of Block (St.)	37.7	37.2	7.7	36.8	7.7
Height (inches)					
Cross Section (in.)					Ba0x15a75
Area of Section (Sq. in.) .	126.0	126.0	126.0	126.0	
MAXIMUM LOAD (IL.) .					
ULTIMATE STRENGTH,	1190	1050	1180	1050	1000
Remarks Rbs.a.r. ex Date of Compression 7		.25,	19 :0		***************************************
	,	(C) VOLDS TES		1 .	1 70
Mark or Humber		1		200.0	126.0
Section Area (#6 in.)		IEb_Q	120.0	120.U	
Number of Cells				s. round er	
Call Dissentions (in.)					
Bad depressions					
Call Arms (ing to.)			83,0		53.0
PERCENT VOLDS			4.2		42
			TA (Weight in Pos		
Mark or Humber		7			10
Weight after Impgraies in water	40.9	40.4	40,9	40,0	40.4
Weight, Dry Sperimen		34.6	34.2	34.7	34.6
Gain in Weight		5.0	6.0	5.3	B. B.
				10/3	16.8
PROCEST ADDRESS ON THE PARTY OF	100 1b./eq.	IN Absorp	tion limit		A Fartre
We reserve the right to pe We withheld so	allah the results of a	all topic made at the publication of requ	da inhucutury, nated.	lane	Observe.
Note -	The Wissessite But	iding Code requirem	conts are 700 th p	or on teach strongth	

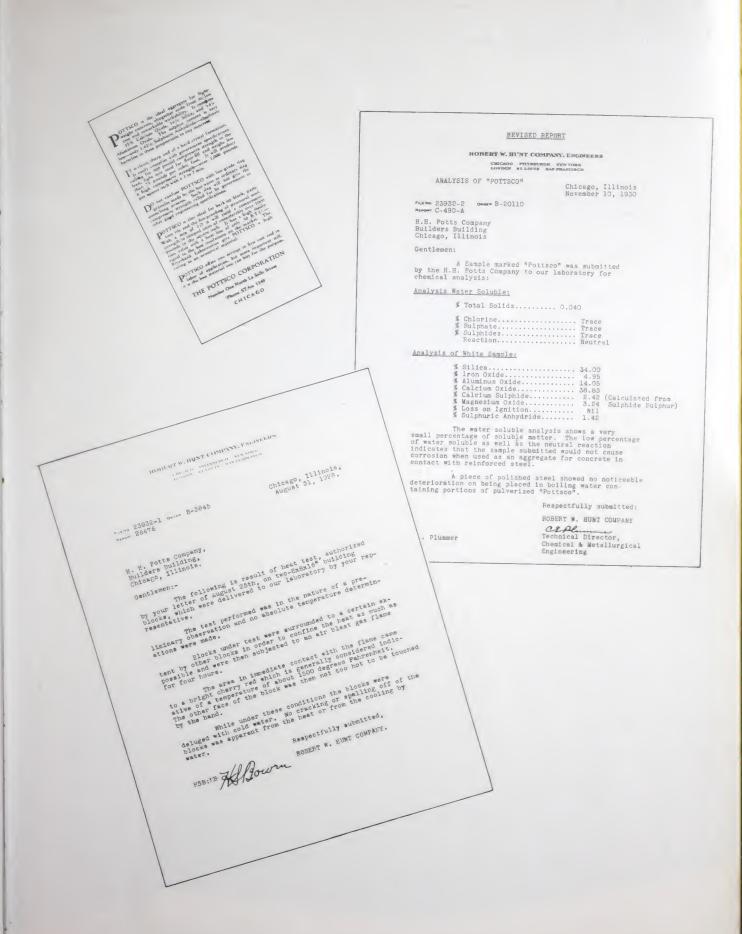
THE UNIVERSITY OF WISCONSIN Brands or Marks ... I in heracon, granollies on enda Brands or Marks. L. IR RESEAUR. EXERCILIES ON SIME.
Additional information Ends. Desember. 7. 1928: Aggregata. Potteso: All through
1/2-in. soreen; 1:9 mix; Ideal 21 ou.ft. batch mixer; 5 minutes ary,
3 minutes wet; inchor stripper; cured 18 hours in steam. These five blocks ploked at random from lot sent for freezing tests, and completed. completed.

(B) COMPRESSION TEST DATA

Loaded on Skilf-in. fagrs, sells restical. Bedded in . \$5 ATHOOD.14 34.4 1267 36_2 7_715 1275 35.6 7.7 7.7 | Dimensions of Leaded | R. Ox15.75 | R. Ox1 945 860 1170 Character of Fracture \$11 & 12, shear one side; others somplete shear. Appearence 1010 880 Date of Compression Test ADTAL E 126_Q 126_Q 126_Q 126_Q (C) VOLDS TEST DATA Mark or Number . Section Area (Sq. 4a.) | Number of Cate | 126.0 | 126.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128.0 | 128 ...15 __126.0___ 3.1x5_2(14,0) and depressions [1.3rt. 8(5.5) ----. RAM R - SARO --------- BR.MO53.0.... 53.0.... Mark or Number

Mark after imagines
to water
to 32..... 53.0 (D) ASSORPTION TEST DATA (Weight in Pounds)32 42 12 |13 ...18 42.0 41.0 34.9 Hodo -- The Wissenskin Building Code recents, medic are Tao in par mt lands strongth and not over 12 per sont absorption.

	DESCRIPTION OF	V S CWS S CO.			
	THE !	UNIVERSITY	OF WISCONS	IN	
	COULTWEE DA ED	GENERALING - DI	SPARTMENT OF B	FRUNANICE S	Sheet 3.
Seealto of Tuess on Par-	Limeo Come :	Laboratory for You			
Note to Economy	Congrete Prod	batta Se Kio	SERullin and Typ	·Beskel6-in	L. J. mell.
Sumples selected by _Q	. W. Portar	Con Man	Addre	_ J_MANUFASOR	A
Souring or factor . No.	NA.	AME.TYKA		When one	10 A
Sand or the R 11	her stored	2.2			
Stands or Harts R 11	mer. stepel	lied on end	. f corator	ed on end o	1 42.
serean: 1.0 min	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	TAR MEETAD	ate. Post sec	LALL thron	eh 1/P-1m
Wet; Anchor ets	ipper; cured	16 hours to	mixer; 3 mi	mutes dry.	3 minutes
and broken for fore freezing. after freezing.	See other ne	regular way.	. Absorption	data le for	rm moren's
after freezing.	7	COMPANIE SE	TENT DAPPO 1	n weight am	absorptio
after freezing. London on En	la-in. faces	- oalla.wart	Licel.	Bedded in #5	
		2	3	4	5
State Number WCPA	1265	1261	1865	1269	1
Bright (Inches)	7.7	.38.0	37.4	36.5	1278
Discussions of London		2.7	7.47	7.7	7.7
Cross Section (10.5	8.0x15.75	.B. Oal5. 75	8-0×15-75	8 0-14 mm	
Arms of Section (Sg. ta.) .		126.0	126.0	126.0	0_0x15.75
MAXIMUM LOAD IN /	180,850	82.750			0.881
ULTIMATE STRENGTH,	3300	4.00	148.850	.134,000	
170 per se da l	1100	4.00	1180		
AXE TOP of \$0 b	n111 mm m 111m	660	11.00	1068	930
TOP of PE b	till my with	lil Immite	portar ban	re breaking	930
Character of Francisco Storage of State	till up with 12. complete ter one side:	lil Immite	portar ban	re breaking	930
AXE TOP of \$0 b	till up with 12. complete ter one side:	lil Immite	portar ban	re breaking	930
(the period of the by Character of Fraction Remarks 0 the FB , sh o Done of Comprission 1	till up with 12. complete ter one side:	A60 1:1 Inmelia shear. srue spearance (C) Young Time	moriar bace My: \$1, m; OK except;	re breaking	930
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PITTSBURGH TESTING LABORATORY

PITTSBURGH, PENNA.

ORDER No. Ch-5825 CLIENT'S NO

LABORATORY No. 163521 FILE NO. 6774.3 August 25, 1933.

REPORT

COMPRESSION AND FIRE TESTS OF POTTSCO CONCRETE

POR

THE POTTSCO CORPORATION, 1 WORTH LA SALLE STREET, CHICAGO, ILLIMOIS

PURPOSE OF TESTS

The foregoing types of test were conducted for the purpose of determining the modulus of elasticity in compression and ultimate compression strength of concrete made up of Pottsco concrete in varying proportions of Pottsco material.

The fire tests were made for determining the protection which Pottsco concrete, in the same warying amounts, would afford structural steel shapes embedded in same.

DESCRIPTION OF TEST SPECIMENS

COMPRESSION TEST SPECIMENS

For the compression test 6° x 12° specimens were cast in the presence of a Pittsburgh Testing Laboratory Inspector, three different mires being selected and two cylinders of each mix prepared for test in the usual recognized manner covering this type of test specimen.

There were three different mixes used in the preparation of the cylinders, as follows:-

MIX NO. 1 - - - 1-8 By Volume

Cement-One Bag (94 Founds)
Pottsco Aggregate - 8 Cu. Pt. (at 48 pounds per Cu. Pt.)
Water Added - 7 Gallons per bag

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PITTSBURGH TESTING LABORATORY PITTSBURGH, PENNA

ORDER NO Ch=5823

FILE NO 6774.3

REPORT

The compression and fire test specimens were shipped to our laboratory where they were allowed to ours in open air at room temperatura for a period of 28 days. At the expiration of the 28 day period the blocks were thoroughly dried out in a heating hood until they had resched a constant weight efter which period they were immediately tested.

RESULTS

COMPRESSION STRENGTE TEST

Compression strength tests were made on each set of cylinders submitted, one of each mix being tested in the usual manner by crushing at the rete of .05 per minute and the utlimate strength determined. The mate to each cylinder was tested for modulus of elesticity as well as ultimate compression strangth. It is mentioned that in crushing test was made on the same days as the companion fire test specimen was tested, one days time baing required for each fire test, as will be described. Results of compression strength tests are as follows:-

COMPRESSION TEST OF 6" X 12" CYLINDERS USING POTTSCO AGGREGATE

CYLINDER	CRUSEING LOAD	CRUSEING LOAD	AGE
STATES	POURDS	LBS. PER SQ.IM.	DAYS
lA	33,000	1170	42
lBe	32,300	1147	
		1156 - Av	eraga
2A.	47,400	1676	43
	44,800	1574	45
		1626 - Av	egage
3A+	51,000	1804	44
3B	72,900	2580	
		2192 - AV	erage

These cylinders used for the determination of Modulus of 1 asticity.

endition that it is not to be represented. While or to part for advertising or it is accommon to extrang writing permittion to extring

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MIX NO. 2 - - - 1-6 By Volume

Coment-1.16 Eags (109 Founds)
Pottaco Aggregate - 6.96 Cu. Ft. (at 48 pounds per Cu. Pt.)
Water Added - 7.76 Gallons per bag

MIX NO. 3 - - - 1-4 By Volume

Cement-One Bag (94 Pounds)
Pottsco Aggregate - 4 Cu. Pt. (at 48
pounds per Cu. Pt.)
Water Added - 5 gallons per bag

A sieve analysis of the Fottsco aggregate used in each of the foregoing mixes is as shown below:-

3/6	· ·	0.0	Percent	Retained	
No.	4	1.5		*	
Ho.	8	7.5			
No.	14	37.0			
No.	20	60.0	w		
No.	28	78.0			
No.	48	94.0			
No.	80	96.0			
No.	100	97.0			
No.	100	3.0	Percent	Passing	

FIRE TEST SPECIMENS

The fire test specimens consisted of three blocks of Pottsco concrete each 10° x 10° x 14° on a side and representing the three different mixes as used in the preparation of the 6° x 12° cylinders tested for compression strength. These fire test specimens were cast around a 6° x 6° "g" column weighing 21 pounds per foot and embedded vertically in the center of the block, with respect to the long axis, the beam extending to within 2° of the upper and lower surface of the block and the ends of the steel beam protected by the concrete which was brought flush with the top and bottom face of the block.

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MODULUS OF ELASTICITY OF CONCRETE

LOAD LAS. PER SQ.IN.	NO. 1	NO. 2	NO. 5
250 500 750 1000 1250 1500	720,000 700,000 635,000 525,000	990,000 975,000 940,000 860,000 750,000	1,250,000 1,250,000 1,250,000 1,240,000 1,170,000 1,060,000

METHOD OF COMDUCTING PIRE TEST

Each of the fire test specimens were, in turn, tested for fire resistance by plading them in a gas fired furnace and heating specimen in accordance with the recognized practice specified by the American Society for Testing Meterials, the time temperature curve being followed, which curve covers fire tests for building materials.

Thermo-couples were placed at points indicated at the lower right hand portion of blue print diagrams, figures 1, 2 and 3, attached hereto, and the temperature recorded by means of a Potentiometer at frequent intervals during the tests.

By reference to these diagrams, it will be observed that the American Society for Testing Materials ideal curve is shown in dotted lines.

After placing each block, in turn, in the gas furnace with the thermo-couples welded to the steal at points 1 and 2 and embedded in the concrets at point 3 and properly insulated, the temperature was gradually reised in the furnace and comtrolled, so that it matched, as nearly as possible, the ideal curve as shown in A. S. T. M. Specifications (19-26T, which covers tentative specifications for fire tests of building construction and materials. It is mentioned that these specifications are similar to those which have been approved by

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REPORT

the American Standards Association and which are followed generally in similar investigations.

Attached photograph, Flate $^{8}\Delta^{8}$, shows the appearance of blocks 1, 2 and 5 with insulated thermo-couple leads, prior to testing.

COMPRESSION TESTS

Results of compression tests indicate a unit compression strength ranging from an average of 1155 pounds for a 1-8 mix to 2192 pounds for a 1-4 mix, the strength of mix No. 2 averaging 1625 pounds or midway between that indicated for mixes 1-4 and 1-8.

The same relationship also holds good for modulus of elasticity values, the values ranking in the same order as the ultimate compression strength of each mix.

PIRE TESTS

Tests were discontinued when steel temperature reached 1000°P. in view of results made by the Bureau of Standards in load tests under heat of Gypsum protected columns. Results of these tests which appear in the Bureau of Standards, Journal of Research for June 1933 and indicate buckling when the temperature of the steel had reached 800°P, to 1200°P. From these results we considered that failure would have occurred at a flange temperature of 1000°P.



PLATE "A"
APPEARANCE OF BLOCKS BEFORE FIRE TEST.

CONCLUSIONS

The following conclusions may be drawn from the results of these tests:-

COMPRESSION STRENGTH TESTS

A. An average strength of 2200 pounds per sq. in.
is indicated for Pottsco Concrete when mixed
in the proportion of 1 part of cement to 4
parts of Pottsco by volume and using 7 gellons
of water per sack of cement.

MODULUS OF KLASTICITY

A. The modulus of elasticity in compression of Fottsco when mixed in the proportion of 1 part of cement to 4 pards of Pottsco by volume and using 7 gallons of water per sack of cement, averages 1,250,000 paunds per aq. in. for working stresses up to 750 pounds per aq. in. This would give a value of "N for engineering calculations of 1 to 24 where "N" is related to the ratio of modulus of elacticity of steel to concrete.

FIRE TESTS

A. The difference between the mixes in the fire test are not as marked as the variation in results obtained in the compression strength tests. The elapsed time for the temperature to reach 1000°P. at the flange of block No. 1, representing a 1-8 mix by volume, we not very much less than the time required for the flange of the "2" beas to reach the same temperature in block No. 3, the latter representing a 1-4 mix.

It would appear that if Pottsoc Concrete is intended as a fire-protecting material only, that a 1-8 mix by volume would answer the purpose almost equally as well as the richer, 1-6 mix by volume.

On the other hand, however, we would recommend the Pottsco 1-4 mix by volume in case the concrete is to be used for load bearing purposes owing to its higher compressive strength and greater rigidity than the leaner mixes.

Respectfully submitted,

PITTSBURGH TESTING LABORATORY

S. W. Reif myder of feets.

The accompanying report on sound transmission made by the Riverbank Laboratories, Geneva, Illinois, probably the outstanding authority on acoustics of building materials, while shown in technical form, interprets itself to establish that POTTSCO has high acoustical properties and POTTSCO light-weight concrete deserves full consideration of its merit wherever acoustical qualities are needed.

Riverbank Laboratories Geneva, Ill.

Department of Acoustics

INFORMATION REPORT #115

Report on Sound Transmission Tests

POTTSCO Block Partition for the H. H. Potts Company

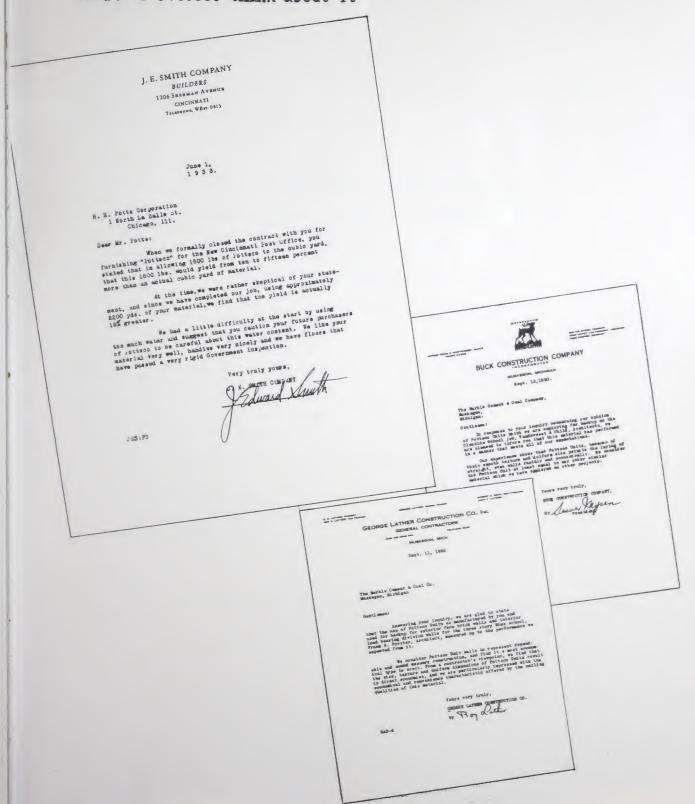
The partition was built in one of the openings of the Sound Chamber of the Riverbank Laboratories, of the 8x8x16" POTTSCO block, laid in lime and Portland cement mortar. The blocks were plastered on each side with a brown and finishing coat ½" thick, of gypsum plaster. The tests were conducted according to the standard Reverberation Method employed in this laboratory, and described in various published papers. The following table gives the logarithmic reduction factor for each of the 17 test tones employed

Tone	Frequency	Logarithmic Reduction Factor	Sensation Units
C ₂	128	3.17	31.7
E2	144	2.93	29.3
F#2	180	3.11	31.1
A#	205	3.56	35.6
C3	256	4.00	40.0
E3	288	4.25	42.5
G ₃	384	4.28	42.8
A# 3	456	4.72	47.2
C ₄	512	5.27	52.7
D#	610	5.12	51.2
F# 4 A# 4	723	5.27	52.7
A#	912	5.22	52.2
C ₅	1024	5.60	56.0
F #	1448	5.17	51.7
c ₆	2048	5.37	53.7
F ₆	2896	4.43	
C7	4096	6.20	44.3 62.0

The average reduction over the entire range of tones is 45.7 units. The weight of the finished construction was 56 pounds per square foot.

TESTIMONIALS

The accompanying testimonials are representative of what all users of POTTSCO think about it



ECONOMY OF STRUCTURAL LIGHT-WEIGHT CONCRETE

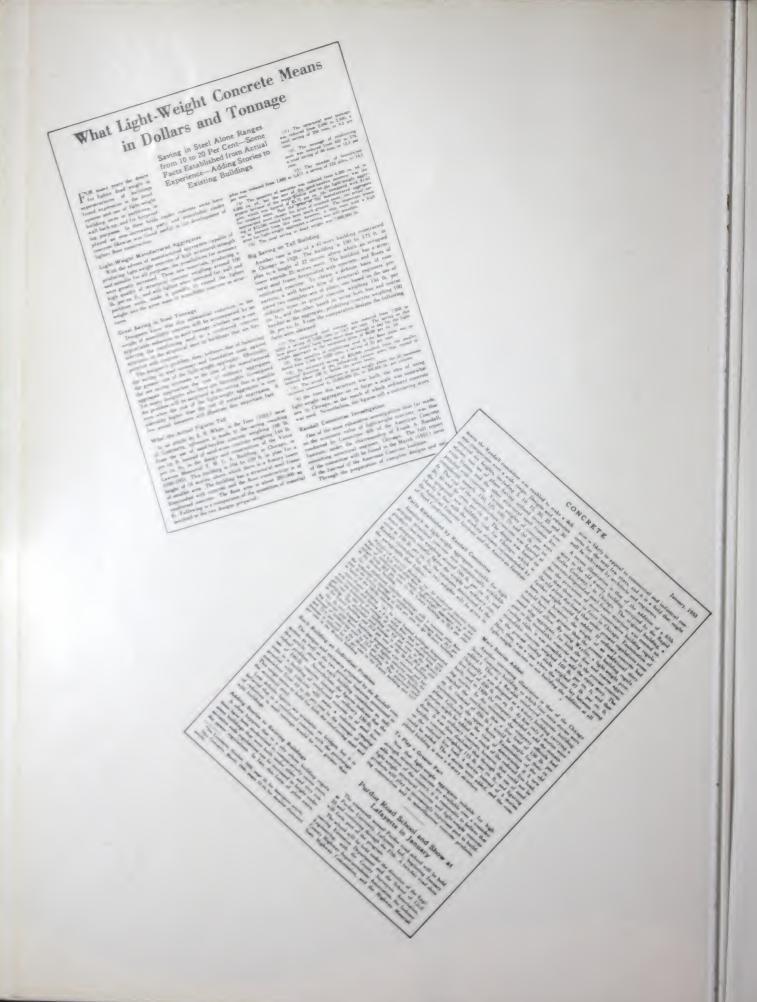
The following quotation is an extract from report of Committee 406, American Concrete Institute, Frank A. Randall, outstanding structural engineer, Author-Chairman:

"The additional price that profitably
may be spent for a lighter weight concrete
in order to reduce the cost of structural
frame. For example, it would be worth while
to pay 10 cents more per cu. ft. (2.70 a
cubic yard) to secure a reduction from 150-1b.
concrete to 130-1b. concrete in a concrete
frame building thirty stories high and a
reduction to 115-1b. or 100-1b. concrete in a
five story building, depending on whether the
floor was of solid slab or joist construction.
The savings are more favorable in the steel
frame building.

We are hopeful that the data developed will prove of value."

PHIONES MISSIPHANK STOR E. A. RANDALL STRUCTURAL ENGINEER 1200 W JACKSON BAND CHICAGO Cotober 10, 1953 TRS POTTSCC CORPORATION, 1 North Labelle Street, Chicago, Illinois. Attention: Tr. 3. A. Ferura opinion of the possible market of light weight concrete agreements. Pengrally and your reterial PCNTACC perticularly. by experience in the light weight appropriate field from an empineer's strange in the convinced we of the ecceptic sayuntees caimed by their use. Date on the second state of the second state of several times are recently been engaged in the design of several buildings one of stysorages type - using light weight aggregates.

These designs were made effer a complete study of vertices accordance and the stream of light volimits definitely proton. These advantages and the stream on the stream of t This market or field ray be lorically divided into four divisions, each based upon its use or purpose. The first and largest of those divisions is light weight floor and reof fill. An in-edited decard of large reportions is brought about by the present as 2,000,000 government building proper as the view many thousands of cubic years. Strucke small theorem and the control of the present as of cubic years. Strucke small thousand the proper and the present and the proper and the pro The second division embodies the precast builting blocks and second division embodies the precast builting blocks and second division embodies the precast builting blocks and second division embodies the precast builting second for many years and uses large quantities of co-cerete retarilists. POTSOC, because of its light weight, quality and low cost should quality for a large percentage of light weight, quality and low cost should quality for a large percentage of this business. The third division includes the precast concrete roof slab industry. A conservative estimate of the averaged quantity of aggregates used in this industry annually for the past ten years is 200,000 cubic yard used in this industry annually for the past ten years is 200,000 cubic yard used in this industry annually for the past ten years is 200,000 cubic yard used in this industry annually from data fiven in regions on construction by this quantity is calculated from data fiven in regions on construction by the Department of Commerce, Washington, 7. C. and includes only those states the Department of Commerce, Washington, 7. C. and includes only those states. E. A. RANDALL STREETERAL EXPLINEER 1300 W. JAPRINIS 0000 CHILARD - POTT SCO CORPY ATTON into mkich FCTTSCO can be skipped with a frice advantage over competitive become much proster as Process devents as 1 themary non-the standing to the factor of 11/1 to 12/1 the standing mach process and 12/1 to 12/1 to 11/1 RAR:3



A Publication Concrete Council to

CONCRETE CONSTRUCTION AND CEMENT MANUFACTURE

CHICAGO, ILLINOIS Detaber 9 2533

Die Pottece Corporation One Burit in Sails Street Unicago Illinois

Permit he to bring to your estentian three articles appear-ing in recent lakes of CHARGER, all of which smould be of interest to you as a producer of light-weight concrete aggregate. In the Dorober issue, the article beginning an page 5 will interest you. The Sentender issue concludes the articles with which you are seen more directly con-cerned. One of these includes the new A.S. T.A. specification for light-weight aggregate, while the other, contible "[hist-Purmon Eng Accepted as Descrete Aggregate," mentions measures national societies was here accepted this aggregate after full investigation.

hased to the writer's shally if the cerest industry, the moment measurables field, and the building industry, in my softened capacity, I so professely constance that there is an asymming and next important market for light-exight nonerals. I have not they build for all or eight years and have seen it need treed by developments which have already taken place and are are taking place.

Armitacts and engineers are becoming nore mently constitute every year of the acreadages of dead-load savings in the structures they beings. I predict that the day is not for instant when practically and our steel frees buildings of any considerable beings will be freeprocess; with light-weight conserves. This is based in findings of the describes Conserve largetimes and also in the consensu lies of afficiency and maving.

In matition to the articles sentioned shows, I have published in our separates measures articles to light-weight concrete and its owes, and also on the are of light-weight appropries whether to route. In making these concretes, by smaller have constroned as that there could controlly be a approprie sure meta-raily mitted to the making of light-weight pomerate than gramminted diag-

here is abstictely nothing in your aggregate, according to its obseited ammirate, which would injury or nervels steel or ether betteling

Toe Putters Corporation

material, and the observed affinity for pertural owners in attractable. In fact, of posterior were greated to the filments of result and high perfect may, it months when sixed with water, have beeneding value gains making on the that of portional convert likeling.

ingon-weight concretes are upstal for any distincts times of precent memory and tills products, such as bosing block partition bills, floor and rest while, as well as floor followers floor, sating concrete, a not there is also. I believe a businessus election for your product in account bridges, in the measurement of buried ownits, leaders trays, parings containers, less furniture, constitute intake and many other asset yet to be developed. The uncertaint properties of approprie as the streaming of conditions on the internal times with an appropriate and internal conditions on the internal time product a constantly expending method, particularly at 1 internal times from the condition of the internal times prior like one of production and your like consisting flyingst rates enable you to image to more time equal terms.

Joinean Holineman

ADVANTAGES OF LIGHT-WEIGHT AGGREGATE

The following reproduction is the result of an exhaustive investigation made by Mr. H. Herbert Hughes of Washington.D. C. regarding light-weight aggregates, which analysis speaks for itself insofar as POTTSCO light-weight aggregate is concerned.

THE AMERICAN INSTITUTE OF MINING AND METALLURGICAL

Technical Publication No. 405 Class H, Nonmetallic Minerals, No. 17

Scope of the Light-weight Aggregates

By H. HERBERT HUGHES WASHINGTON, D. C.

DISCUSSION OF THIS PAPER IS INVITED. It should preference by the presented in person at the New York Meeting, Pebruary, 1931, when an abstract of the paper will be presented. If this impossible, discussion in writing may be sent to the Editor, American Possible, discussion in writing may be sent to the Editor, American Invitate, of Mining and Metallurgical Engineers, 20 West 30th Invitate, of Mining and Metallurgical Engineers, 20 West Serestary or other Invitate, of Mining and Metallurgical Engineers are supported by Street, New York, N. Y. for presentation by the Serestary or other Street, New York, N. Y. for presentation by Indian American Invitation of the Serestary will close April 1, 1931.

The Service of the author. Unless Special 1, 1931. As new paper will close the Serestary of the Service of the author. The Service of the author will close April 1, 1931.

29 WEST 39th STREET NEW YORK, N. Y.

All papers instund by the Institute are abstracted month by month Mining and Medallurgy. This paper is issued with the Petersary, 1919 mumber. Members are urged to go through the abstracts each month a number. Members are urged to go they can use.

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Printed in U. S. A.

Water-cooled granulated slag has attracted attention as light-we water-cooled grammated sing has attracted attention as figurate aggregate for several years, particularly for use in masonry build aggregate for several years, particularly for use in masoury bunt units. No extensive utilization of the material has ever been many the several years, particularly for use in masoury bunt units. tunits. No extensive numeration of the material has ever occur into however, because of its soft friable nature and its low crushing streng. The H. H. Potts Co. has overcome these objectionable features by special cooling process. The product, Pottsco, was first marketed in t. Chicago district in August, 1928.

The Pottseo manufacturing process is completed within the steet using slag from selected firms see Pottents agreeing its manufacturing its The Pottsco manufacturing process is completed within the steet mill, using slag from selected furnaces. Patents covering its manufacturing process. facture are pending and no details regarding the process are yet available Regulated temperature of the water during cooling appears to be the important feature.

Pottsco aggregate weighs about 1500 to 1600 lb. per cubic yard, a liberal moisture allowance bringing the shipping weight to 1800 lb. One noteral moisture anowance pringing the suppling weight to routile. One commercial grade is produced, the size of the particles ranging approximately formula to the produced of the particles ranging approximately formula to the particles ranging approximately for the particles ranging approximately formula to the particles ranging approximately for the particles ranging approximately formula to the particles ranging approximately for the particles ranging approximately fo mately from 4 per cent. retained on 8 mesh to 98 per cent. retained on 100 mash minimum for the particles ranging approva mately from a per cent, retained on a mesh to so per cent, retained on 100 mesh, giving a fineness modulus of 2.85. At present Pottsco is being used almost entirely for precast masonry units. Tests have been made, however, covering its use in poured concrete, particularly for floor sill nowever, covering its use in poured concrete, particularly for nool and and roofing, but the company has not actively promoted its sale for these

Pottseo masonry is recommended for all types of construction requir-Pottseo masonry is recommended for an types of construction requiring back-up or partition units, its insulating properties being especially ing back-up or partition units, its insulating properties being especially stressed. The aggregate has been available only since 1928, but its stressed. The aggregate has been available only since 1920, but he reception in the building trade shows that it occupies an important position in the light moient fold. tion in the light-weight field.

The plant supplying Pottsco to the Chicago district is at Indian The plant supplying Pottsco to the Chicago district is at indian Harbor, Ind., and from there the material is shipped to the concrete plants that manufacture Pottsco units. Most of those plants trarpor, Ing., and from there the material is simpled to the concrete products plants that manufacture Pottsco units. Most of these plants products plants that manufacture Pottsco units. Most of these plants lie within a 300-mile radius of Chicago. The maximum capacity of the lie within a 300-mile radius of Unicago.

Indian Harbor plant is 750 tons per day.

A second plant for production

Contamina 1920

Its maximum capacity of the Indian Harbor plant is 750 tons per day. A second plant for production of Pottsco was opened in Pittsburgh, Pa., in September, 1930. Its maximum and the second plant for production of Pottsco was opened in Pittsburgh, Pa., in September, 1930. of Pottsco was opened in Pittsburgh, Pa., in reptember, 1930. Its maximum output is 1000 tons daily, but distribution in this area is still in its mum output is 1000 tons daily, but distribution in this area is still in its infancy. Fig. 1 shows the location of these two plants as well as districts. of appreciable consumption of Pottsco. Each one of these districts, with of appreciable consumption of Pottsco. Each one of these districts, with a few exceptions, also represents the location of a plant manufacturing

Pottseo units.
Pottseo production has increased steadily since 1928 and it is reason-Pottsee production has increased steadily since 1928 and it is reasonable to assume that the increase will continue. Ultimate Pottsee proable to assume that the increase will continue. Ultimate Pottsco production, however, will be confined to those areas where suitable slag is duction, however, will be commed to those areas where suitable siag is available. Buffalo, Youngstown, Cleveland, and especially Birmingham, future plants of though the sleep produced in available. Burlalo, Youngstown, Cleveland, and especially Birmingnam, are logical locations for future plants although the slag produced in are logical locations for future plants although the slag produced in the minor iron and steel manufacturing districts also may be utilized. the minor iron and steel manufacturing districts also may be utilized. Expansion of Pottseo production, particularly for building units, will Expansion of Pottseo production, particularly for building units, will not only increase the field of light-weight aggregates but also will aid the not only increase the neid of night-weight aggregates but also will a iron and steel industry in profitable utilization of by-product slag.

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What Is a Fair Market Price for Light-Weight Units?

A Careful Analysis of All Factors Affecting the Sales Figure

struction. Light-weight concrise units, as typified by those manufactured of Pottoco, Haydies and cinder engresses, are making marked progress in the beckup unit field. This progress in the beckup unit field. This progress in the violenced by the increasing mamber of architects who specify light-weight concrete units and clay tile units on the same basis, giving the contractor his option to purchase offere one, and by an increasing number of

An attempt was made in the accompanying article to set up on the basis of 1930 prices, a ready and quick comparison of the cost of POTISCO walls with hollow tile walls,

The theory of the calculations is adjustable to the basis of prevailing prices governing both products,

prices governing both products.

Because of the design and size of POTTSCO building units displacing smaller units of other products; the ECONOMY of POTTSCO walls is reflected in labor and mortar especially.

	Ву Н. 1	H. POTTS			
N a consideration of light-weight concrete mits, two topics for thought come imme- diately to mind the potential surface, and the price at which the products can be sold. The potential suarket for light-weight con- crete units comprises every mission; struc- crete units comprises every mission; struc-	for concrete or clay the other is specified. The result is that a concrete units are i	for alternate proposals tile units where one or in the base hid. clay the and light-weight is direct competition on major market volume.	ket locawon. Mag coency will also ut given below repres are sufficiently accu- poses. (All figure thick.)	ary, however, ent average courate for comp	the figure editions an arative pur
ture where clay tile, commun brick or gyp- sum tile are ordinarily cased.	of construction. It that the cost of fig	is therefore necessary	Price Is	Not the O	nly
The fair market price for such antity should be expected to be true cost plus a e- rassonable profit, but more logically, a fair price for a concrete unit is the actual value it delivers when compared with competitive construction materials. Practically all load-bearing and non-load-	walls. Informed men in know why, a mason weight concrete unit one built of clay tile	the industry know, and any wall built of light- a is a better wall than In some cases owners appreciate the supersor	This table show values for hollow concrete masonry v ample, if \$x8x12-i to building site at 8x16-in light-weigh	s equivalent s clay tile and walls, 8-in, thic n, clay tile ar a price of \$65 t concrete unit	light-weigh fit. For ex re delivere per M, 8
bearing exterior walls employ common brick, clay tile or concrete units for backup ma- terial. The cost of a wall built of solid brick is about twice the cost of the same type of wall built of hollow clay tile or light- weight concrete units, with the result that solid brick construction is limited to rela-	qualities of this typ construction and will nevertheless, if concr manding position in the it is easential that it	appreciate the superior e of concrete manoury pay more to obtain it; ete is to occupy a com- he masoury backop field, be sold on a price basis th the cost of clay tile	\$170 per M, deliver On an even wall light-weight concre vantages to the ow contractor. The o the walls of which sound insulating pr	cost basis the ric unit offers ner, his archit wmer obtains a have superio operties and s	many nd set and the a building v heat and obstantially
tively few buildings. In fact, solid brick managery walls when used today owe their specification to the particular job where cost is not a major objective, where the struc- ture contains many window openings and	The next step to comparative costs of clay tile units, and c units?	consider is, what are similar walls built of if light-weight concrete	better fire resistan contractor effects of the miling, cutti made possible with portant consideration	marked econor- ing and plaster there units. A on is that ow	oconomie nother im- ner, archi-
thus requires but a small volume of masonry, or where preferential building code restric- tions exist in a particular locality.		ral materials that enter vary seconding to mar-	tect and contractor and development of		
Ordinary clay tile for backup has en-	c	OST OF LABOR AND M	ORTAR PER THOUS	AND	
ioyed the advantage of being the first ma- merical on the market to demonstrate the marked economy that can be effected by substituting a larger, hollow unit for the	Mortar, concrete units Mortar, clay tile (6 c	u. (3 cts. ft. per 100 sq. ft. u. ft. per 100 sq. ft.) ser) per M	A	50.00 9.50 9.50
mailer solid brick unit. The trend of the past twenty years has been toward the almost	Number of ExEx16-in	units required per sq. ft units required per sq. ft	of wall		
movered use of hollow clay units for back-	COST	OF LABOR AND MORT.	AR PER SQ PT-8 I	WALL	
sp. Since the advent of light-weight con- rese units about ten years ago, concrete units	Labor, 1.1 coexcrete un			Concrete tile	Clay tile
nave shared in this trend and today they	Mortar, 1.1 units @	© 5 cts	The second second	7.7 cts.	11.0 eta,
ield. Because clay tile led the building in-	Mortar, 2.2 unus @	0095		-	2.1 ets.
histry toward the use of hollow units for ackep, that material still holds the major	Total labor and mortal Saving in favor of	or cost per sq. (t	er so. ft.	8.75 cts.	13.10 cts.
chame position in that class of wall con-	COMPARATIVE	COST OF BIN. CONCE		AY TILE WAL	LS
Light-weight concrete units, as typified by	Selling price	Units	Commen	de Unite	
hose manufactured of Pottaco, Haydee and inder aggregates, are making marked prog-	hollow clay tile (5nRnt2) 2.2 units	Cost of the tile wall, including labor and meeter	Selling prine Selle 10-m.	Coat of or unit w Including	lahov
ess in the backup unit field. This progress	per eq. ft.	per eq. fc.	1.1 mains per eq. ft,	per eq.	Car,

Selling price	Units		te Unite
hollow clay	ting tile wall.	Saling price	Cost of concrete
tile (infat?)	including labor	faste laws.	mit wall
2.2 units	and morter	1.1 matte	and mortar,
year est. St.	per sq. ft.	per eq. ft,	per eq. tt.
\$55.00	25.20 cts.	\$150.00	25.25 cts.
60.00	26.30	160.00	26.35
65.00	27 40	170.00	27 45
70.00	28.50	180.00	28.55
75.00	29.60	190.00	29 65
80.00	30.70	200.00	30.75
05.00	31.60	210.00	31.85



lower wall costs, the added qualities of POTTSCO walls in the form of insulation, acoustics, nailing, direct plaster base, etc. are decidedly apparent.

Data on these features appear elsewhere in this booklet.

Light-weight mits and for bowless and persistons in St. Paul's charter, St. Stackery, and Persiston in St. Paul's charter, St. Stackery, which, described, artistic constitution of the production for the production of the constitution of the production of the production of the production and overage and the constitution and overage and a prompt decision and overage and a converse managery in so higher chain for city tile. The result that some production of the production of th

PACTORS INVOLVED IN ESTABLISHING THE SELLING PRICE OF LICHT WEIGHT

in the	lowance per lx16-in. unit
Profit	2 cts.
Discount, 5% of 17 cts.	.85
Delivery expense	1.2%
General overhead expense 1 /4	
Sales expenseles	2
Operating labor expense	1.28
General plant expense, nower ra-	. , ,
pairs, etc.	9

In addition to actual

ADVERTISING

and others in building and maintaining the prestige of POTTSCO at all times, by an advertising campaign through representative and proper mediums.

Below is reproduced specimens of advertisements taken at random

THE POTISCO CORPORATION attempts to assist manufacturers, dealers,

which have appeared from time to time.

POTTSCO

IS

CHEMICALLY INERT

POTTSCO contains no soluble sulphur and less sulphure anhydrofe than Portland cemest itself In fact a chemical analysis of POTTSCO parallels a similar analysis of Portland cement. A report of test on POTTSCO by the R. W. Huat Company proves that it contains no insoluble contains a contained to the contained of the contained of

The report eases further.

"A piece of pollahed steel showed no notice able detertoration on being placed in boiling weter containing portions of pulversed POTTSCO."

Parallels Portland Cement

FARALICES FORTHRIU COMMENTA
A LLADING HEART OF
FURTHAND CLEMENT
General Land A 11
General Code
A 12
General Land A 12
General Land A 13
Ge

(POTTSCO)

Part Marie And

Uses

POTTSCO is being used for monolithic light weight concrete on some of the largest and most important buildings for the U.S. Govern-

Cellular Yet Hard and Crystalline High in Compressive Strength

The POTTSCO Corporation

Equally good for moulded unit block or tile Light in Weight

1 North La Sulle St.

-POTTSCO

LIGHT WEIGHT AGGREGATE

Architects and Engineers are once ying a proven product in POTTSCO because it shown by boratory tests and actual field has given complete satisfaction among miportant buildings including several of the largest Post Offices in the United States. POTTSCO combines light weight with compressive strength and load bearing value.

POTTSCO

| POTTSCO fulfills every requirement as shown by boratory tests and actual field work. It is shown by boratory tests and

Contractors like POTTSCO because of its easy worked by greater yield labor saving, low first cost and units at all temperatures.

Light Weight Agreeds Uniformity at all Temperatures to Segregation in Mixing

at all temperatures.

Has many uses. Floorfill, Book with Analogo Concrete, Fireproofing, Back-up Tile, Partition Tile, Roofing Tile Cast Stone.

Send today for sample and test data from Lading loboratories.

Block plant manufacturers, under for details of franchise offer.

THE POTTSCO CORPORATION

Chicago, Illinois

POTTSCO

A Proven Product at a New Low Cost

Architects, engineers and contractors are specifying and using POTTSCO today because it is a tested product and has given complete, satisfaction on numerous important buildings, including some of the largest post offices in the United States

Workshility Insulation

Sanulile

It has tested insulation and acoustical value, uniformity at all temperatures and no segregation in mixing

(POTTSCO) Light Weight Aggregate

USES

Boof Slabo Back-up Block
Nailing Concrete Partition Tile etc.

POTTSCO fulfills every requirement as shown by laboratory tests and ac-tual field work.

The POTTSCO Corporation 1 North Laballe Street CHICAGO

POTTSCO

Shows High Efficiency AT LOW COST

POTISCO is

High Compressive Pros to the air.

Nicength Strength InsuLating Value the air.

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Lon Cost

- Light in neight - 70 to 100 pounds per cubic foot, de-

(POTTSCO) Light-Weight Aggregate



Bulldero—Landadated Engineering Compan-Concrete Contractor—J B builth Compan-

The Pottsco Corporation

POTTSCO

Used in the New Chicago Post Office

for floor fill



POTTSCO used in the largest post office in the country! POTTSCO has exceptional light-weight, compressive strength, great insulating and acoustical value. High in insulation and low in cost! Good for back-up block and partition tile as well as for monolithic work.



Floorfill Roof Slabe Nailing Concrete Valing Concrete
Fireproofing
Load-bearing Building Units
Partition Tile
Roofing Tile

Shipments from either Chicago or Pittsburgh at low freight rates in quantities from carload up.

The Pottsco Corporation One North La Salle Street Chirago

PAG Smitter

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produce BIVELLIN & language ARM NES het by Product cuty and Dictors. In op buth 10

TI WES QUALITY Dinie4 that of were di ber and 90 141 o hereal Crivin

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> L. Sau 1108

R. P Agenta Motora

Your Neighborhood Conc Owner Management, Personal Contact, Prompt Courteous Service Your Neighborhood Concer

Owner Management, Personal Contact, Prompt Courteous Service—Low O

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COCCERNATION A CONTRACTOR OF THE PROPERTY OF THE

All Qualities of Wood Obtained in Substantial Substance.

A Building block, made by a special process to remove approximately 50 per cent of its weight but having sufficient hardness to produce adequate compression strength and comparatively low strength and comparatively low absorption qualities, is being made and has been placed on the mar-ket by the Kalamazoo Cement

ket by the Kalamazoo Cement Products Company located on Alcott and Portage streets. The new product is known as Pottsco.

In special tests the blocks have been found suitable for nailing, sawing, and boring. Its tenacity quality for retaining nails have proved by tests to be superior to that of wood. In this test 80 nails were driven into a 2x4 pino timber and required an avererage pulled 140 pounds for extraction, whereas the same number of nails of 140 pounds for extraction, whereas the same number of nails driven into the Pottsco blocks required an average pull of 145 pounds, according to Lester R. Ryan, manager of the company.

Ryan also says that these block units may be easily and quickly sawed on any angle with

L. A. Schoolmaster

Sanitary Plumbing and Heating Experienced Workmen Westnedge Ave. 1108 S. Dial 7831

R. P. WARNER & SON

Agents for Century Electric Motors, 1-30 h.p. to 250 h.p.

any type of saw with no disastrous results to the saw; and that holes may be bored with ordinary tools and even lag screws applied with no ill effect to the brick

The fire resisting qualitles of the product is high, as has been de-termined by the Robert W. Hunt, Engineers, whose reports, after a test made, states that "the area in immediate contact with the flame came to a bright chrry red which is generally considered indictative of a temperature of about 1,500 degrees Fahrenheit. The other face of the block was then not too hot to be touched by the hand. While under these condi-tions the blocks were deluged with cold water. No cracking or scal-ing off of the blocks was apparent from the heat or from the cooling of the water."

The sound-deadening qualities of the product, determined by a test made by the Riverbank Laboratories of Geneva, Illinois, reveals an average reduction over the entire range of tones of 45.7 units, while reduction of only 60 sensation units would be necessary to reduce a sound of ordinary conversational loudness to inaudibility.

In a freezing and thawing tests made by the University of Wisconsin from January, 1929 to March 26, 1929 showed that though there was some surface deterioration to a depth of only 1-16 of an inch or loss, this did not show up until about 90 reversals had been made.

Other tests made reveal the average compression strength of the units to approximate between 900 and 1,200 pounds per square inch.

Though the product is new Kalamazoo it has been manufactured by plants in Wisconsin for some time. Slag is used in its manufacture and a chemical analysis shows the block to contain lime, silica, alumina, manganese, and sulphur.

All lead compounds are poison

BILLINGS-CHAPIN

4-Hour Enamels 4-Hour Varnishes

Sand Pails and Shovels 16

Scooters, \$1 49 up

DeBruin's Business Years Old: Has Special Game Fish Permit.

So great has been the demand live bait by fishermen this ring that Jake DeBruin, bait aler at 1501 South Westnedge eet, is finding it difficult to keep with the demand in spite of the at that he leases two ponds for live bait and covers a radius of 40 miles for bait. He is at present considering getting gold fish keep up with this demand.

Mr. DeBruin has one of the mo modern live bait establishment: Michigan. On his property Westnedge street he has structed a roofed-in minnow the base of which is he water level of Axtell cree runs through the prope creek furnishes a consta tion of water through

tanks. ALL SIZ

The minnows are types and run fr. down in siz- \" down in sizleased County in he mand for she forced to me

none ende No

nets as each net pulls to three hundred min BARS ST. JOE

Further evidence of placed in his minnow reads: "Notice: No to Residents of St This county does ing with minnow DeBruin recogniz that county, in well acquainted

them balt.
All types of by him incl crickets, though pat sively used fishermen Mr. DeP lures u the n large

From

The Kalamazoo Gazette Monday, July 8, 1929.

HADLEY F, FREEMAN DONALD H. SWEET GEORGE M. ALBRECHT HARRY S. WEIDMAN

MARGIL JAHR
MARBHALL LOW

FREEMAN AND SWEET
PATENT ATTORNEYS
TEN SOUTH LASALLE STREET
STATE 6970

CHICAGO, ILLINOIS

DONALD H. SWEET MARO L. JAHR

CLEVELAND—
PREEMAN AND WEIDMAN

MILWAUKEE-FREEMAN AND ALBRECHT

August 7, 1931.

Harry H. Potts, Esquire, 201 North Wells Street, Chicago, Illinois.

Dear Mr. Potts:

It is a pleasure to notify you of the formal sealing and issuing of United States Patent 1,816,988 on August 4, 1931, based on your development of light-weight concrete employing a granulated slag aggregate.

At the outset, when we first approached the Patent Office, we took the position that you were the originator of the first practical lightweight concrete made from any granulated slag aggregate. It is a pleasure now to look back and see that all the evidence considered throughout the proceedings, sustained our position and that the Patent Office has now agreed with us in that conclusion.

Thus it would appear that you can look forward to seventeen years of monopoly and protection with respect to light-weight concrete using an aggregate wholly or chiefly made up of a suitable form of granulated slag, based on a patent that should be as comprehensive and effective as the courts have held the Straub patent to be with respect to cinder block.

Yours very truly,

DHS: FK

Donald H. Sweek



IDMAN

RECHT

Muskegon, Mich.

Pesidence of H. Berghins
POTTSCO back-up and partition units



POTTSCO back up units
used in
Nims School,
Muskegon Heights, Mich.



Chicago, Illinois New U. S. Post Office POTTSCO floor-fill used throughout



Apartment building using POTTSCO back-up and partition units—



Milwaukee, Wis.
Foundry - POTTSCO light-weight brick used for all walls.



POTTSCO Sheboyran, Wis in this church



Davenport, Iowa
Apply Fortland Cement
Stucco to POTTSCO back-up
units - residence J. H. Kottman



PUTTSCO back-up units used in North Muskegon, Mich. School.



Personal type of residence using for two back-up and partition units



Residence using Pottson back-up and partition units





<u>Purlington</u>, <u>wis</u>, Catholic Monastery POTTSCO back-up and partition units.



Duplex Residence of B. H. Schoonhoven ready for application Portlend Cement Stucco direct on POTTSCO back-up units-



Residence of L. E. Schwalbe using POTTSCO back-up and partition units



Muskegon, Michigan Nurse's Home - POTTSCO





See C. F. Post Office -



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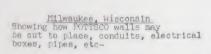
Commercial and spertners colleting using Private back-up and partition on to-



Milwaukee, Wisconsin Apartment building in which POTTECO back units was used



De Haan apartment buildings using POTISCO back-up units





PROMANDE HOME
PROMINE OF THE PROMINE TO THE PROMINE

A typical residence construction using pure building units—



A modern service station - POTTECO back-up units with Portland Cement, Stucco



Underwood Notel - POT Sco back-up and partition units





Parenport, Iowa, Parenport, Iowa, throw hout this modern service station—



Residence construction using

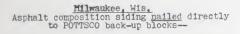


Beridente of J. H. Lettman Interior wills ready for direct plaster on FOTISCO building units—



A magnified granule of POTTSCO light-weight Aggregate

0







A typical standard 4" x 8" x 16" POTTSCO building unit—



Specimen section showing POTTSCO light-weight concrete for fire-proofing steel columns, saving dead weight and increasing fire protection—





